

Name _____ Date _____

Student book pages 166–167

A VOCABULARY WORDS

Match the items on the left with the correct definitions.

- Example: 8. float 8 stay on the surface of a liquid
- | | |
|-------------------|--|
| 1. volume | _____ the amount of matter in an object |
| 2. mass | _____ matter that has definite shape and volume |
| 3. gas | _____ the temperature at which something melts |
| 4. liquid | _____ matter that has a definite volume but no shape |
| 5. melting point | _____ the amount of space something occupies |
| 6. freezing point | _____ matter that is neither solid nor liquid |
| 7. solid | _____ the temperature at which something freezes |

B VOCABULARY IN CONTEXT

Choose words from the box to complete the paragraphs.

boiling point	float	freezing point	volume	sink
graduated cylinder	liquid	thermometer	mass	

Example: When ice reaches its melting point, it becomes a liquid.

Scientists use different tools to measure matter. The tool they use depends on what they want to know. If they want to know (1) _____, they use a balance. If they want to know the (2) _____ of a liquid, they use a (3) _____. If they want to measure how hot something is, they use a (4) _____. The temperature at which a liquid boils is called the (5) _____. The temperature at which a liquid freezes is the (6) _____.

Scientists can tell if an object will (7) _____ or (8) _____ by dropping it into a liquid. Then, they watch to see if it stays on the surface or drops below it.

E SCIENCE SKILL Using Numbers to Compare

Look at the chart to the right. It shows the melting points of different metals. Use the numbers in the chart to answer the questions.

Using Numbers to Compare

✓ You can use math to compare numbers in a table.

- Which two metals have the lowest melting points?

- How much higher than the melting point of aluminum is the melting point of iron?

- How much lower is the melting point of silver than the melting point of gold?

Metal	Melting point
Aluminum	660°C
Gold	1,063°C
Iron	1,593°C
Lead	327°C
Silver	961°C
Tin	232°C

F MASS, VOLUME, AND DENSITY

Pairwork

Work with a partner. Use a balance to find the mass of a wooden or plastic block. Then use a metric ruler to measure the length, width, and height of the block in centimeters. Multiply length \times width \times height to find the volume of the block in cubic centimeters. Finally divide the block's mass by its volume to find the density. Record your information in the chart.

Mass of block	
Volume of block ($L \times W \times H$)	
Density of block ($M \div V$)	

G WRITING Analyzing Evidence

Juan poured three liquids into a beaker. The liquids formed three layers like the ones in the picture. What did his results tell him about the densities of the three liquids? Write a paragraph.

Analyzing Evidence

✓ Study all the facts to learn something.

